

PATENT ABSTRACTS OF JAPAN

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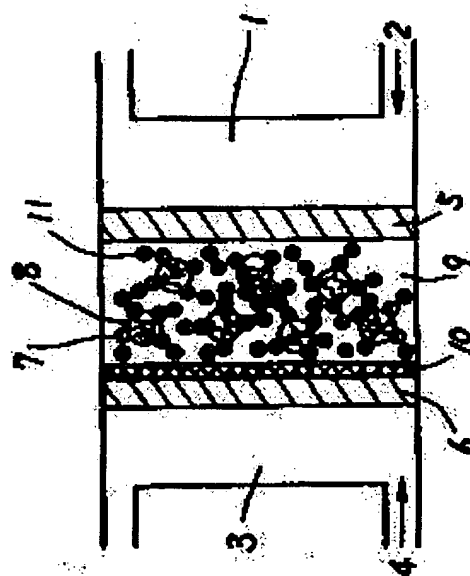
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(54) FUEL CELL

(57)Abstract:

PURPOSE: To prevent or decrease leakage or flow out of electrolyte by using particles of organic high molecule compound comprising hydrophobic nucleus and surface layer covering the nucleus and having ion group as electrolyte placing between a fuel electrode and an oxidizing agent electrode.

CONSTITUTION: Particles 8 of organic high molecule compound comprising hydrophobic nucleus and surface layer covering the nucleus and having ion group 7 is used as electrolyte placing between a fuel electrode 5 and an oxidizing agent electrode 6. For example, particles of copolymer of styrene and styrene sulfonic acid in which sulfonic acid group is distributed on the surface is used as an electrode of methanol fuel cell. The particle is synthesized in such a way that distilled water, styrene as hydrophobic monomer, and sodium styrene sulfonate as ionic monomer are mixed and potassium persulfate as polymerization initiator are added to the mixture and they are stirred in a high speed under a nitrogen atmosphere to polymerize them.



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